Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 6/20/2011

Time: 12:30 pm

Crew: Archil Tornadze, Andrew Molnson

Transect: T-282

Approx. River Mile:

Nearest Survey Marker: T-280

Distance from Marker:

Location and Sample Type	(meters) GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☒ Core Tube ☐ Ekman Dredge	N: 194080.03	0.5 G/S	4.5 = G/C	1.5 > G/C	G 10 inch C - 10 inch
	E: 156032.85	~~1.5 ft~~	~~9 in G/C~~	~~9 in G/C~~	~~G - 5 in C 8 in~~
Core B ☒ Core Tube ☐ Ekman Dredge	N: 194083.63	1.5 ft	9 in G/C	9 in G/C	G - 5 in C - 8 in
	E: 156036.35				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

location A - Geotech & chem samples are 1 ft apart. loc A is 5 ft from the right bank (upstream direction).
High amount of Lilypad growing. Lots of wood debre around. Lilypads are along left bank upstream.

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: June 21, 2011

Time: 12:40 p (B) / 14:00 (A)

Crew: A. Wolfson, A. Zarnadze

Transect: T255

Approx. River Mile: 4.8

Nearest Survey Marker: T255

Distance from Marker: 16' (A) and 32' (B)

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)		Depth of Core Recovery (ft)	
Core A ☑ Core Tube	N: 194108.03	1'	3'	34"	36"	8"	17"
☐ Ekman Dredge	E: 155293.91						
Core B ☑ Core Tube	N: 194114.69	2'	2'	22"	17½"	10½"	8"
☐ Ekman Dredge	E: 155287.55						
	N:						
	E:						
				Geo	Chem	Geo	Chem

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

1st Chemistry Core = 46% Recovery @ Location B
1st Geotech Core = 48% " @ " B
2nd Chemistry Core = 8" recovery (attempted to get better recovery. Did not occur) Loc B

Location A:
1st Chemistry Core = 47% Recovery - A. Wolfson noted void in bottom of core
1st Geotech Core = 24% "

Signature: Alys Pinkens

Date: June 21, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: June 21, 2011

Time: 5:05 pm

Crew: A. Wolfson, G. Parkins

Transect: T-115

Approx. River Mile: 2.2

Nearest Survey Marker: T 115

Distance from Marker: on the transect

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)		Depth of Core Recovery (ft)	
Core A Next page for notes ☒ Core Tube ☐ Ekman Dredge	N: 193993.66	~~19"~~ 10"	~~27~~ 21" - Geo				
	E: 151915.86						
Core B ☒ Core Tube ☐ Ekman Dredge	N: 193995.97	19"	27" - Geo	11"	19"	100%	97%
	E: 151918.30		38" - chem				
	N:						
	E:						
				Geo	Chem	Geo	Chem

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

location B
1st Geotech Core = We use 5 ft core tube.
33" core tube is from river bottom to the top of tube (27" of penetration)
However, sediment measured inside the tube is 11". actual sample length 11" (100%)
2nd ~~Geotech~~ Chemistry core - We use 5 ft tube.
36.5" core tube is from river bottom to the top of tube (23.5" of penetration)
However, sediment measured inside tube 5.5". actual sample length 5" but it is too shallow and we are trying again.
3rd chemistry core - 5 ft tube used. Distance from river bottom to the tube top 15 38" (14" penetration) however sed measured inside tube 19". actual sample length is 18.5". 97% recovery.
3rd try Chemistry tube - Heavy petrolium odor.

Signature: [signature]

Date: June 21, 2011

continued

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T115 Cont'd

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Location A. 30" tube used.
1st core - Geotech - Distance from bottom of river to top of tube 9" (21" penetration)
Sediment measured inside the tube is 8". actual sample length 7.5" (94%)
37" tube used
2nd core - Chemistry - Distance from bottom of river to top of tube is 11"
Sediment measured inside the tube is 21". actual ~~distance~~ sample length is 20.5".
(but two inches from the bottom is lost, ~~an~~ rock fell out). (97%)

location A - 32ft from left bank 2.2 ft ~~from~~ from level logger.
location B -

QC personnel 2015 (T115 left) - N-194004.42 E-151919.46

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: June 22, 2011

Time: 1:40 finished

Crew: A. Zarradze, A. Wolfson

Transect: Unnamed tributary 1 (UNT 1)

Approx. River Mile:

Nearest Survey Marker: Level logger on UNT 1

Distance from Marker: 292" from upstream face of concrete structure

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)		Depth of Core Recovery (ft)	
Core A Core ☒ Core Tube ☐ Ekman Dredge	N: 194241.35 E: 155050.09	2"	2 feet	24.5"	25.5		
Core B ☐ Core Tube ☐ Ekman Dredge	N: E:						
	N: E:						
				Chem	Geo	Chem	Geo

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

We are upstream in tributary from level logger and culvert.
Sampling location is center of channel. Surface large rocks and medium fine sand is present.

Chemistry tube - length 43.5". Dist from bottom of river to top of tube is ~~20"~~ 19".
Sediment length insid tube is 18.5". actual length of sample 16".

Geotech tube - length - 48". Dist from river bottom to top of tube is 22.5".
Sediment length insid tube - 16.5". actual length of sample 16.5" (100%)

Geotech core is located 1 ft right upstream of chemistry core.

Signature: [signature]

Date: June 22, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T-267

Date: June 22, 2011

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew: A. Zarnecke A. Wolfson

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)		Depth of Core Penetration (ft)		Depth of Core Recovery (ft)	
Core A ☑ Core Tube ☐ Ekman Dredge	N:	2 ft	2ft	2ft	21"	21"		
	E:							
Core B ☒ Core Tube ☐ Ekman Dredge	N:	3 ft	1ft	1 ft.	8"	8"		
	E:							
	N:							
	E:							
			Chem	Geo	Chem	Geo	Che	Ge

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Location A - 12 ft from right bank upstream. Lots of wood debree, petroleum odor. Tube length 4 ft for chemistry. dist from river bottom to top tube is 27" (penetration depth 21"). sediment length in tube 11". Actual length of sample is 11" (100%).
Geotech - tube length is 40". River bottom to top tube distance is 19" (penetration depth 21"). sed length in tube ~~17"~~ 17". Sample length is 17" (100%).
Location B - 16 ft from left bank upstream. Some wood debree, no odor.
Chemistry - core penetration 8". Sed inside tube 7". actual sample length is 6" (~90%). tube size 40".
Geotech - tube size 3 ft. core penetration 8". Sediment size inside of core 6". Sample size 6" (100%).

Signature: V.R.

Date: June 22, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: June 23, 2011

Time:

Crew: A. Wolfson, A. Zarnadze

Transect: UNT 2 Unnamed tributary 2

Approx. River Mile:

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☑ Core Tube ☐ Ekman Dredge	N:	2"	1.5 ft.		
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Location is 68 ft upstream from level logger.

Chemistry tube is 37". We pushed in by hand in sediment, went through 2". There is 1" sediment inside, (1" compression of sediment inside tube). ~~the~~ After one hit tube is 5" into ground, 5" sediment in the tube. After seven hit for core advancement tube is 7" into the ground and 7" inside the tube. After third hit tube is 8" in the ground and 8" inside tube. 4th hit, tube is 10" inside ground and 11" of sediment inside the tube. 5th hit, 12" of tube inside ground and 12" sediment inside tube. 6th hit, ~~same~~, tube is 13" in ground, 13" in tube. 7th hit, same... (13" & 13")
After pulling chemistry core from ground the sediment sample length is 13".

Signature: [signature]

Date: June 23, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: UNT 2 cont'd

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Geotech core. - total length is 25". We placed geotech core 16" downstream to still center. By hand we pushed by 4". sediment inside tube is 4".
1-st hit - tube is 5" inside the ground and sediment inside tube is 5".
2nd hit - same results as hit 1. 3rd hit - tube is 7" inside ground and sediment is 6" inside the tube. 4-th hit - tube is 13" inside ground and sediment is 10" inside the tube. 5-th hit - 14" in the ground and 12" sed in tube. 6-th hit is same. So 14" in the ground and 12" sed in tube.
After pulling geotech core from sedment we have 12" of sedment sample inside the tube.

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: June 23, 2011

Time:

Crew: Wolfson, Zamadze, Garvey

Transect: T-304

Approx. River Mile: 5.71

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Location A -
Geotech - pushed by hand 5" in ground. 4" sed inside tube. 2nd hit - 8" in ground, 4¾" sed in tube. 3rd hit - 13" in ground, 8" in tube. 4th hit - 16" in ground, 10" sediment in tube. 5th hit - 19" in ground, 13" sediment in tube. 6th hit - 22" in ground, 14" sed in tube. 7th hit - 25" in ground, 17" sed in tube. 8th hit - 31" in ground, 19" sed. in tube. 60% recovery. discarded.
Geotech - TRY 2 - by hand. 6" in, 4" sed in tube, 2nd hit - 13" ground, 9.5" in tube. 3rd hit - 19" ground, 15" in tube. 4th hit - 25" ground, 17.5" in tube. 5th hit - ~~30.5"~~ 29.5" ground, 20" in tube. 6th hit - 37" ground, 24.5" in tube. 7th hit - 42" in ground, 27.5" sed in tube. 8th hit - 48.5" in ground, 34" sed in tube (≈ 70% recovery).

Starting chemistry core while Andrew brings truck for pulling out geotech core.

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T 304 Cont'd

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☒ Core Tube ☐ Ekman Dredge	N:	18"	5 ft+	45½"	41½ / ~33½
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

Core A (on right facing upstream)

NOTES

(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.) Chemistry ✓ 4:50 PM start

3rd Chem (G4) Subtract ft's from 58.5

hit #	in ground depth "	sed. in tube depth "	hit	in ground depth (in)	sed in tube	Tube length = 58.5
1st hand/hit	7¼	7	1	49	51¾	
2	12½	12	2	42½	45	
3	19½	18	3	36	39½	
4	26½	24	4	30¾	35½	
5	31½	28½	5	26	30¾	
6	36	32	6	21	25½	37.5 | 33.
7	42	38	7	16	20	
8	47	43	8	13	17	45½ | 41½
						5:10 ~~5:10~~
Core lost/~~on~~ retrieval				Core recovered @ 5:10		

air gap ~ 8" from bottom
36" of mud, water, air; probably
25" of black mud/sand
8½" of red gravel/sand/clay

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T304 contd

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
Core B ☒ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

Core B 5:30 EH

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Start ~~6:30~~

Chem Core subtract from 49" tube

Hit	Depth of tube (in)	Depth of seal (in)
1	43	45
2	38	39 3/4
3	32 1/2	34
4	25 3/4	28
5	23	25 1/2

Done ~~6:40~~ 5:40 EH

Cut of 2" to remove core from Liner + get good seal

Subtract #'s from ~~48~~" Geo Core 60" tube

Start 5:55

Hit	Core Depth	Sed depth
1	51 1/4	52
2	42 3/4	44 1/2
3	36 1/2	39
4	30	33 3/4

Stop 6:20

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 6/27/11

Time: 11:30

Crew: A. Wolfson, A. Zarnadze

Transect: T255 - resampled

Approx. River Mile: 4.8

Nearest Survey Marker: T255

Distance from Marker: 35' A, 15' B from L Bank

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:	1'	3'		
	E:				
Core B ☒ Core Tube ☐ Ekman Dredge	N:	2'	4.5'		
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

CORE B

Chemistry - 49" tube - 15' from L bank upstream
Pushed by hand 6", sed is 3"
hit 1 tube went 13.5" sed is 8.5"
hit 2 tube went in 16.8", sed is 12.5"

Geotech - 48" tube -
Pushed by hand 5", sed. is 2"
hit 1, tube went in 12", sed is 7"
hit 2, tube went in 14", sed. is 9.5"

CORE A

Chemistry - 48" tube - 35' from L Bank
Pushed by hand 3" - sed is 3"
hit 1 tube went in 7.0" - sed is 5"
hit 2 tube went in 12" - sed is 8"
29.5 hit 3 tube went in 17.5 - sed is 9"
hit 4 23.5" outside - 33" inside
hit 5 18 outside - 28 inside

Geotech - 48.5" tube - 35 from L
Pushed by hand 45" - sed is 46"
1 - 35" outside sed is 43"
2 -
3 - Left column, will resume.
4 - Center with piston card
5 -

Signature: [signature]

Date: 06/27/11

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 6/27/11

Time: 4:30

Crew: AW, AZ, BG

Transect: 323A

Approx. River Mile:

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☒ Core Tube ☐ Ekman Dredge	N:	1½ ft	~~6~~ ½ ft		
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Move location ~ 30' down stream. Original location was lined w/ 6" pieces of slate

Chem Core

Step	Core Penet	Sed Recov.

No Recovery

Need to return w/ Ekman Dredge

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: 323B

Date: 6/27/2011

Approx. River Mile:

Time: 4:45

Nearest Survey Marker:

Crew: ~~AT~~ AZ, AW, BG EJ

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:	~~1ft~~ EJ			
	E:				
Core B ☒ Core Tube ☐ Ekman Dredge	N:	1 ft	1 ft		
	E:				
	N:				
	E:				

Core obtained 11' off left bank

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Chem Core Tube = 35"

Step	Core Penet	Sed Recovery
1	28.5"	26"
2	27.5	25.5
3	23.5	22.5
4	20 ?	19 Reject

Chem Core Tube = 35"

Step	Core Penet	Sed Recovery
1	26.5	27.5
2	21	21 Refusal
Actual Recovery		~100%
	=13.75"	

Seds are all brown seds almost no black sediments

Reattempted

Step	Core Pen	Sed Rec.
1	33"	33"
2	28	28
3	23.5	23.75
4	21	21

= lost on retrieval = reattempt

GeoTech Core Tube = 48 1/2"

Step	Core Penet	Sed Recovery
1	40"	40.75
2	34.5"	35.5
3	32.75	33.5
	~100%	Refusal
Actual recovery		~ 15"

Signature:

Date:

Stopped at 5:45

EA

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 6/28/2011

Time: 11:30

Crew: AW, AZ, EG

Transect: ~~331~~ 333A

Approx. River Mile: C

Nearest Survey Marker:

Distance from Marker:

Marker 333 on shore

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A	N:	1.75'	~1 ft		
☒ Core Tube					
☐ Ekman Dredge	E:				
Core B	N:				
☐ Core Tube					
☐ Ekman Dredge	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Chem Core = 48"

Step	Core Penet.	Sed Recov.	
1	44"	44"	(push)
2	37	39.5	
3	37	39.5	refusal
	Core lost on retrieval		
Reattempt			
X EA	~~43 3/4~~"	C	
1	44" EA	44 1/2	
2	38 1/2	39 1/2	
3	36 1/2	~~37 3/4~~ 37 1/2 EA	refusal

Geotech Core = 60"

Step	Core Penet	Sed Recov
1	55"	55"
2	46"	47 1/2" refusal

Actual ~~X~~ Recovery = 11"

All seds are redish / brown
- ~~no~~ black horizon ~ 1/2 cm
- Water in tube during retrieval
~~X~~ ~~moves~~ flows out of tube bottom

Actual Recovery = 7"

flowing gravel/sand material flows out of tube

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: 333 B

Date: 6/28/2011

Approx. River Mile:

Time: 1:15

Nearest Survey Marker:

Crew: AZ, AW, BG

Distance from Marker: ~100 ft

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
Core B ☒ Core Tube ☒ Ekman Dredge EA	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Across from 333A, shoreline is all shale fragments no sediment. No Probe rod penetration. Moved upstream about 100 ft to shallow sediment deposit ~ 2 ft from left bank. Took Ekman dredge sample

Took 3 grabs to fill bowl

Average penetration ~ 2 inches coarse to fine sand. Jaws difficult to close due to rocks in sample

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 6/27/2011

Time: 2:30

Crew: AZ, AW, EG

Transect: 319

Approx. River Mile:

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☒ Core Tube	N:	2 ft	1½ ft		
☐ Ekman Dredge	E:				
Core B ☐ Core Tube	N:				
☐ Ekman Dredge	E:				
	N:				
	E:				

Core location 23 ft from left bank

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Core A Chem Core tube = 33" tube (Chem)

Step	Core tube Penetration (in)	Sediment Recovery (in)	Subtract to get actual penetration ~~+recovery~~ + recovery
1	26½	28½	
2	21	22½	
3	17½	19	← Refusal
	33-17½ = 15½	33-19 = 12 ~75%	

Both cores mostly red-brown sand
Only 1-2 in of black overly sediment

Actual chemcore recovery ~ with 2 in gap mid core

Geotech (34" tube)

Step	Core Penetration	Sediment Recovery
1	28	29½
2	23	24½
3	18	21
4	16	19
	34-16 = 18"	34-19 = 15" ~80%

Actual recovery ~~recovery~~ = 15"

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: 319 B

Date: 6/27/2011

Approx. River Mile:

Time: 3:15

Nearest Survey Marker:

Crew: AZ, AW, BG

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
Core B ☒ Core Tube ☐ Ekman Dredge	N:	1/2 ft	3 ft		
	E:				
	N:				
	E:				

Core location 12 ft from left bank

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Chem Core = 38"

Chem Core

Step	Core Penetration	Sediment Recovery
1	~~Ex 6~~ 32"	~~Ex 6~~ 32"
2	27	27
3	20	21
4	14	16
5	9	12
	38-9 = 29"	38-12 = 26"
		~88%
	Actual recovery = 17 1/2"	
	~6" gap at bottom	

Geotech tube = 31"

Geotech

Step	Core Penet.	Sed. Recovery
1	25"	25"
2	20"	21"
3	14 1/2	16"
4	7"	11"
	31-7" = 24"	31-11 = 20"
		~82
	Actual recovery ~20"	

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T 3 B

Date: 6/28/11

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew: A.Z. AW ~~BG~~ EG

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:	1" (inch)	2		
	E:				
Core B ☒ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Core B– Chemistry – 37 3/4" hit 1 – 33" out / 33" in. hit 2 – 28 3/4" / 29.5"
hit 3 – 23" out / 24 1/2" in. Hit 4 – 17" out / 19" in. ~~Hit 5 – 14.5"~~
Hit 5 – 15" core penetration & 17" sediment ~~inst~~ 15" / 17"
Geotech – 46.5" tube. Hit 1 – 37.5" out / 39.5" in. Hit 2 – 32.5" / 35".
Hit 3 – 26" / 29.5". Hit 4 – 21" / 25.5"
~~16 3/4~~" penetr., 1
N Geotech core actual recovery = 21"
46.5 – 21 = 25.5 in penetr.
46.5 – 25.5 = 21 in sed 21/25.5 ~ 84% recovery

Chem Core actual recovery = 19.5 in
37 3/4 – 15 = 22 3/4
37 3/4 – 17 = 20 3/4 recovery ~ 90%

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T3A

Date: 6/28/11

Approx. River Mile:

Time: 4:30 PM

Nearest Survey Marker:

Crew: AW, AZ, BG

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☒ Core Tube ☐ Ekman Dredge	N:	2 ft	9" (3/4 ft)		
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Geotech ~~Chem~~ Core = 60" tube

Step	Core Penet	Sed Recovery
~~0~~	~~54"~~	~~51~~
1	51 3/4"	52 3/4"
2	50"	50 3/4" refusal

Actual Recovery = 8 1/2 inches

60 - 50 = 10"

60 - 50 3/4 = 9 1/4"

~90% recovery

Chem Core = 49 1/4"

Step	Core Penet	Sed Recov.
1	42 3/4	43 3/4
2	40	41 3/4
3	39 3/4	41 1/2 refusal

Actual Recovery = 7 inch

49 1/4 - 39 3/4 = 9 1/2

49 1/4 - 41 1/2 = 8 3/4

~90% recovery

- Most of river bottom is gravel and shale fragments. Samples collected ~~&~~ in sed/sand lenses near river edge (10 ft from each side

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 6/28/11

Time: 6:30 PM

Crew: AW, AZ, EG

Transect: 255A

Approx. River Mile:

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A Piston ☒ Core Tube ☐ Ekman Dredge	N:	1 ft	3 ft		
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Chem Core = 48" barrel

Step	Core barrel	Sed Rec	Δ
1	41	36 1/2	4 1/2
2	36	28	8
3	28	21	7
4	20	15	5
5	16	11 1/2	4 1/2

Actual Recover = 27"
Penet = 48 - 16 = 32"
~ 87% recovery

Geotech Core = 48" barrel

Step	Core Barrel	Sed Rec
0	48	44 3/4
1	41 1/2	43
stop all, start reattempt		
0	48	46
stop 1	41	43
0	48	44 3/4
1	43 3/4	42 3/4
2	32 1/2	38 1/2
3	25	27 3/4 bad meas
4	17 1/2	27 3/4

bad measure on tape

Actual recovery = 17 1/2" refusal

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T29 B

Date: 6-29-11

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew: AW, AZ

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
Core B ☒ Core Tube ☐ Ekman Dredge	N:	3.5	1.5		
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Chem: 97 inches

Step	Penetration	Recovery
1	94 in	94.5
2	~~85~~ 81 AW	85 refusal

Actual recovery = 10.5 inches
97 - 81 = 16 inch penetration
97 - 85 = 12 inch
Recovery ~ 75%

SAMPLE COLLECTED ~ 8 ft FROM LEFT (U.S.) BANK

Geo: 60 inch

Step	Penetration	Recovery
1	55"	55.5"
2	48	51"
3	43	46"

Actual recovery:
60 - 43 = 17 inch penetration
60 - 46 = 14 inch recovery

Signature: [signature]

Date: 6-29-11

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date:

Time:

Crew:

Transect: T29 A

Approx. River Mile:

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A	N:	2	3		
☑ Core Tube					
☐ Ekman Dredge	E:				
Core B	N:				
☑ Core Tube					
☐ Ekman Dredge	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Core A. Chemistry - total length 81"

STEP	Penetration	Recovery
1	74"	74"
2	65"	69"
3	~~58~~ 58"	65" END

STEP	Penetration	Recovery
1	68	71
2	54.5	60
3	45.75	51

81-45.75 = 35.25 penetration

81 - 51 = 30 inches sed

~ 83% recovery

Actual recovery=

Geo - 42.5

Step	Penetration	Recovery
1	36.75	38.5
2	32	35.5
3	22.5	28.5
4	16	~~24~~ 23

42.5 - 16 = 26.5 penetration

42.5 - 23 = 19.5" sed

Actual recovery = 18.5"

~ 90% recovery

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook **Transect:** T55B

Date: **Approx. River Mile:**

Time: **Nearest Survey Marker:**

Crew: **Distance from Marker:**

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core ~~A~~ B ☐ Core Tube ☐ Ekman Dredge	N:	1.8'	3.2'		
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES Large rocks are present

(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Chem: 48 inch

Step	Penetration	Recovery
1	42.5"	43"
2	37.5	38.5
3	32.0"	33
4	26.5	28
5	22	24
6	~~18.5~~ 19.0	22
Actual	sed. size ~~recovery~~	26" ~~(100%)~~
~~(48-19)/(48-22) = 29%~~		
26/29 = 0.9	90%	
260		
261		

Geotech - 60"

Step	Penetration	Recovery
1	53"	53.5"
2	47.5"	48.5"
3	40"	42.5"
4	37 3/4"	40.5"
5	26.5"	33.5"
6	15"	23"
Actual	sed. size ~~recovery~~	36.5"
(60-23)/(60-15) = 37/45 = 0.82		82%
370		
360		
100		

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T55A

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Depth of Core Penetration (ft)	Depth of Core Recovery (ft)
Core A ☑ Core Tube ☐ Ekman Dredge	N:	1	5		
	E:				
Core B ☐ Core Tube ☐ Ekman Dredge	N:				
	E:				
	N:				
	E:				

NOTES
(include photographs with descriptions, location description, collection difficulties, distance between chemistry and geotechnical cores, etc.)

Chem: 60 inch

Step	Penetration	Recovery
1	52.75"	52.75"
2	40.5"	44.5" END ATTEMPT 1

Chem: 57.25" (Attempt 2)

Step	Penetration	Recovery
1	43.5	44.5
2	33	35
3	28	30.5
4	23	26
5	18.5 sed. size	21.5 Refusal

Actual Recovery = 31" (lost bottom 7.5" while pulling core up, bottom was very coarse sand material,

recovery = (57 3/4 - 21.5)/(57 3/4 - 18.5) = 90%

Geo: 61 inch

Step	Penetration	Recovery
1	53.75	54.75
2	43.75	46.75
3	33.75	42.0 END

Attempt 2

Step	Penetration	Recovery
1	52.75	53
2	44	46.5
3	34	39
4	27 3/4	33 3/4
5	23.5	30
6	16.5 sed. size	24

Actual ~~Recovery~~ = 37"
80%

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T309

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube	N:	1.5	4.5	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:
Core B ☐ Core Tube	N:	1	4	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:

NOTES:

Significant loss of sediment when Chem Core A extracted. Re-cored location

Measurement Number	CORE A				CORE B			
	Chemistry Length 61 inch		Geotech Length 61 inch		Chemistry Length 36"		Geotech Length 35"	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	~~54~~ 52	54.5	49.75	52	28.5	29	28.5	29
2	41.5	46.5	41.5	46	24	25	24.5	26
3	37	41	37.5	42.5	18.5	21	20	22.5
4	32	37	32.5	38.5	13	16	14.5	18.5
5	27	33	30.5	37	9	13	6	12.5
6	25	31	25	33				
7	23	29.75	KEEP		Actual recovery = 22.5"		Actual recovery = 23"	
8	REJECT							
9								
10			Actual recovery = 28"					
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook **Transect:** T309

Date: **Approx. River Mile:**

Time: **Nearest Survey Marker:**

Crew: **Distance from Marker:**

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 61		Geotech Length		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	54	56						
2	47	49						
3	41.5	45						
4	37.5	41						
5	32	36.5						
6	26.5	31						
7	23	28						
8								
9								
10								
11								
12								

REJECT

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T309

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A Third attempt ☒ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:
Core B ☒ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Second try on B.

Measurement Number	CORE A				CORE B			
	Chemistry Length		Geotech Length		Chemistry Length 61.5		Geotech Length 61.5	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	54	56			52	52.75		
2	47	49.5			44.5	46		
3	39	43			38.75	40.75		
4	34	39			32	35		
5	29	35			26	29.5		
6					21	24.5		
7					16.5	20.5		
8								
9								
10								
11								
12								

REJECT

REJECT

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T309 B

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:
Core B ☒ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 61.5		Geotech Length		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	53.5	54.75						
2	46	49						
3	40	45						
4	34	39.5						
5	29	35						
6								
7								
8	Actual							
9	recovery							
10	=25.5"							
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 07/8/2011

Time: 11:00

Crew: A.Z. A.W

Transect: T 328

Approx. River Mile: 6.25

Nearest Survey Marker: T 328

Distance from Marker: 0

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☒ Core Tube ☐ Ekman	N: 193761.67	1	~0.5	C: G:	C: G:
	E: 157296.12			C: G:	C: G:
Core B ☒ Core Tube ☐ Ekman	N: 193764.69	0.5	3"	C: G:	C: G:
	E: 157293.99			C: G:	C: G:

NOTES:

Could not capture material with Ekman, scooped ~4" of sediment from streambed with bowl.
Attempted piston core at B → 32" penetration and 15" recovery (should have been ~28"). Cores at B have petroleum odor

Survey Marker QC-(2092)
N- 193759.67
E- 157293.47

Measurement Number	CORE A Chemistry Length DEPTH	CORE A Chemistry Length SED	CORE A Geotech Length DEPTH	CORE A Geotech Length SED	CORE B Chemistry Length 37" DEPTH	CORE B Chemistry Length 37" SED	CORE B Geotech Length 35" DEPTH	CORE B Geotech Length 35" SED
1					1/ 30"	30.5"	29.5"	30"
2					22"	25"	26.5	29
3					18"	24"	21.5	26
4					13"	21"	18	25
5					8"	19"	11.5	22.5
6					2/ 30.	30.5		
7					27	28.5		
8					22	25		
9					17	22		
10					14	20.5		
11					10	18		
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: Spring Lake Trib

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube ☐ Ekman	N: 194174.86			C: G:	C: G:
	E: 157177.65			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES: distance from water level meter 52 feet downstream

QC for Water level Meter

N - 194186.92

E - 157188.92

Measurement Number	CORE A				CORE B			
	Chemistry Length 28"		Geotech Length 29.5"		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	23.5	24.5	23	24				
2	17.5	19.0	19	21.5				
3	10.5	12.5	12	14.5				
4	9.5	11.0						
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature]

Date: 07/28/17

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T-136

Date: 7-11-11

Approx. River Mile:

Time: 12:30

Nearest Survey Marker: T-135

Crew: A. Wolfson, A. Zarnadze, C. Purkiss

Distance from Marker: 100

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube	N: 193804.46	0.5'	3.5'	C: 38" G: 36.5"	C: 42" G: 24"
☐ Ekman	E: 152462.29			C: G:	C: G:
Core B ☒ Core Tube	N: 193809.39	0.5	3.5'	C: 34" G: 33.5"	C: 19.5" G: 22.5"
☐ Ekman	E: 152463.87			C: G:	C: G:

NOTES: Chem Core A: Recovery = 31", 2" gap = 29" Recovery = 76% (24 sed gap = 4", 3" sed)
Geo = 23.5", 1.5" loss on bottom = 61% Recovery
Geo ~~Chem~~ Core B: 26" of 33.5" = 78%
Chem ~~Geo~~ Core B: 28.5" of 34" = 84%

Measurement Number	CORE A Chemistry Length 48" DEPTH	CORE A Chemistry Length 48" SED	CORE A Geotech Length 48" DEPTH	CORE A Geotech Length 48" SED	CORE B Chemistry Length 49" DEPTH	CORE B Chemistry Length 49" SED	CORE B Geotech Length 48" DEPTH	CORE B Geotech Length 48" SED
1	41.5	42	39 1/4	40.5	39.0	40.5	40.5	42.5
2	34.0	37.5	32 1/4	39 3/4	31.75	34.0	36.75	39.25
3	27.0	31.5	28	33.5	25.5	29.0	32.75	35.75
4	22.5	28.5	24	31	20.75	25.0	26.75	32.25
5	18.0	24.5	18.5	29.5	17.5	22	18.75	26.25
6 Chem =	11.5	19.0	11.5	24	15.5	20	14.5	22.5
7 81.6%	10.0	17.0	=	65%	15.0	19.5		= 76%
8	=	81.6%				= 87%		
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: C. Purkiss

Date: 7-11-2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T-156

Date: 7-11-2011

Approx. River Mile: 2.9

Time: 3:00 PM

Nearest Survey Marker: T-155

Crew: A. Wolfson, C. Purkiss, A. Zarwadzp

Distance from Marker: 100'

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube	N: 193457.66	0.5'	1.5'	C: G:	C: G:
☐ Ekman	E: 152906.74			C: G:	C: G:
Core B ☑ Core Tube	N: 193458.88	0.5		C: G:	C: G:
☐ Ekman	E: 152904.09			C: G:	C: G:

NOTES: QC for ~~survey~~ survey marker (2046 / T155)
N - 193472.68
E - 152875.02

Measurement Number	CORE A Chemistry Length 2' DEPTH	CORE A Chemistry Length 2' SED	CORE A Geotech Length 22½" DEPTH	CORE A Geotech Length 22½" SED	CORE B Chemistry Length 2' DEPTH	CORE B Chemistry Length 2' SED	CORE B Geotech Length 35.5" DEPTH	CORE B Geotech Length 35.5" SED
1	14.5"	16"	16"	16.5"	① 19"	20"	① 29.25	31.5
2	11"	12.5"	11"	12.5"	15.5"	18"	24	29
3	7.25"	9"	5.75"	9.5"	10"	12.5"		
4	7"	8.75"			4"	8.5	② 29.5	30.5
5					[35.5"]		23	25.5
6					② 30"	30.5"	16.5	20.5
7					24.5	25.0	7.5 AW	16.0
8					19.0	20.5		
9					13.75	15.0		
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: C Purkiss **Date:** July 11, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T' 180

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew: A. W. C.P.

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube	N: 193497.80	1	3	C: G:	C: G:
☐ Ekman	E: 153526.54			C: G:	C: G:
Core B ☐ Core Tube	N: 193505.75	~~1~~ 1	3	C: G:	C: G:
☐ Ekman	E: 153524.72			C: G:	C: G:

NOTES: New Market Road Outfall

Measurement Number	CORE A				CORE B			
	Chemistry Length 48		Geotech Length 48		Chemistry Length 49		Geotech Length 48	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	38	39.5	35	37 3/4	1/ 41	41	40	42.5
2	32.5	35.5	28 3/4	33	39	40	35 1/2	38 1/4
3	28.5	35	22.5	28.5	37.5	38.5	26	31
4	24	32	16.~~25~~	23	34	35.5	18 3/4	27
5	18	26	10.5	19	31	32	10 1/2	21 3/4
6	10	20.5			30	32		
7					2/ 42	42 1/4		
8					37.5	40		
9					34 1/4	37.5		
10					30	33.5		
11					27.5	31		
12					23.5	27.5		

DEPTH - Measurement from sediment-water interface to top of core tube (inches) 18 22.5

SED - Measurement from top of core tube to surface of sediment inside core tube (inches) 10 18.5

Signature:

Date: 07/11/11

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T217

Date: 7-12-2011

Approx. River Mile:

Time: 6:30pm

Nearest Survey Marker: T 220

Crew: A. Zarnadze, A. Wolfson, C. Punkiss

Distance from Marker: 300'

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube	N: 193755.43	3	3.5	C: G:	C: G:
☐ Ekman	E: 154,556.59			C: G:	C: G:
Core B ☐ Core Tube	N:			C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:

NOTES: Core B is too deep need Boat.

Final Length

Core A - Chem - 36 inches Core B Core B Chem

Core A - Geotech - 28 inches Core B Geotech

Measurement Number	CORE A				CORE B			
	Chemistry Length ~~86.5~~ 97		Geotech Length 96		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	86.5	86.75	78.5	83.8				
2	74.5	79	71	79				
3	67.5	73	63	72.5				
4	60.5	66.5	59.5	70				
5	56.5	62.5	59	69				
6	55	60.5						
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature] **Date:** 07/12/11

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: ~~T-328~~ T-348 (LW)

Date: JULY 13, 2011

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☒ Core Tube	N:	0.5	~~X~~ (LW) 2	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:
Core B ☒ Core Tube	N:	~~0~~ (LW) 1	3.5	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:

NOTES: DRIVE FLANGE CRACKED AND PIPE FELL INSIDE CORE TUBE AT LOC. A. PIPE REMOVED PRIOR TO RETRIEVAL. APPROX 1-2 IN. LOST FROM BOTTOM OF EACH LOC A CORE. LOCATION DOWNSTREAM OF DOUBLE ROUND CULVERT.

Measurement Number	CORE A				TWO ATTEMPTS ↓ CORE B			
	Chemistry Length 32.5		Geotech Length 29.5		Chemistry Length 34 & 56		Geotech Length ~~30~~ (LW) 61.5	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	27.5	27.5	~~29.5~~ 25	~~32.5~~ 25.25	27.5	28.25	52.5	55.5
2	22.5	23	19.5	20.25	22.75	25	46.25	50.5
3	17.5	18.5	14.5	16	17.75	20.75	36.5	44.5
4	15	17	11	12.5	13.5	17.75	30.75	39
5					~~ATTEMPT 2 ↓~~		25.5	34
6					48.75	49.5	23	31.5
7					38.5	40.5		
8					33.5	37.5		
9					28.5	32.5		
10					21.75	25.75		
11					18	22		
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T350

Date: 7-13-11

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew: A Wolfson, A Zarnadze, L Warner

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube ☐ Ekman	N:	3		C: G:	C: G:
	E:			C: G:	C: G:
Core B ☑ Core Tube ☐ Ekman	N:	1.5		C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Pushed cores to refusal by hand: Soft sed with hard refusal.

Final Length: Core A — Chem: — Geo:

Core B — Chem: — Geo:

Measurement Number	CORE A				CORE B			
	Chemistry Length		Geotech Length		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T346

Date: 7-13-11

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew: A Wolfson, A Zarnadze, E Warner

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	~~Distance to top~~ Final core recovery (ft)
Core A ☐ Core Tube ☐ Ekman	N:	0.5	~8 inches	C: G:	C: 6.3 inch recovery G:
	E:			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:	1.5		C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Generally hard bottom. Sampled close to banks to retrieve softer sediments.

Measurement Number	CORE A				CORE B			
	Chemistry Length		Geotech Length		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T 342

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube ☐ Ekman	N:	0.5	10 inches	C: G:	C: G:
	E:			C: G:	C: G:
Core B ☑ Core Tube ☐ Ekman	N:	0.5	7 inches	C: G:	C: G:
	E:			C: G:	C: G:

NOTES: Large rocks and ~~debb~~ debris everywhere

Measurement Number	CORE A				CORE B			
	Chemistry Length		Geotech Length		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T323A

Date: 7-18-11

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew: A Wolfson, A Zarnedze

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube ☐ Ekman	N:	18 inch	10 inches	C: G:	C: G:
	E:			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 17.5		Geotech Length 24 inches		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	10.5	11	15	17.5				
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T344

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube ☐ Ekman	N:	1 ft	~9 inch	C: G:	C: G:
	E:			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:	1 ft	~9 inch	C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 25.5		Geotech Length		Chemistry Length 15.5		Geotech Length 20	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	14.5	16	13.5	16	8.5	10	14	14
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T 75

Date: July 26 2011

Approx. River Mile:

Time: 11:30 am

Nearest Survey Marker: T 75

Crew: C.P. A.A. A.Z.

Distance from Marker: 0'

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube	N:	2.5	4.5	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:
Core B ☑ Core Tube	N:	0.5	5.5	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A Chemistry Length 97" DEPTH	CORE A Chemistry Length 97" SED	CORE A Geotech Length 96" DEPTH	CORE A Geotech Length 96" SED	CORE B Chemistry Length 97" DEPTH	CORE B Chemistry Length 97" SED	CORE B Geotech Length 96" DEPTH	CORE B Geotech Length 96" SED
1	94	94	89	88.5	90.5	91.5	(1) 86"	90.5"
2	77	83.5	83	83.25	78.5	83	70	84
3	66.5	73.5	74	75	70.0	77.0	57"	74
4	57	64	67.75	69.75	59.0	69	NG	NG
5	55	57	59.5	57.75	41	53		
6	53.5	56	49.75	51.5			(2) 79"	89
7	52	55	48	50			NG	NG
8							(3) 80.75	88.5
9							73.5	85
10							64.0	78.5
11							53.5	70
12							42.0	62.0

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature] **Date:** July 26, 2011

Resampled

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: UNT 1

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube	N:	2 inches	2 ft.	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:
Core B ☐ Core Tube	N:			C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:

NOTES:

Final length ~~core A~~ Chem - 26.5 inside 1.5" cord

Final length ~~Geotech~~ Geotech - 21.5

Measurement Number	CORE A				CORE B			
	Chemistry Length 35.5		Geotech Length 36.5		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	28	30.5	28.5	29				
2	23.5	26.5	24	25.5				
3	18.5	22.5	19	23				
4	15.5	19.5	12	18.5				
5	11.5	16	8.5	15.5				
6	8	12.5	~~7.5~~	~~24.75~~				
7	5	10						
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:** 07/26/11

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: SB 17 A

Date: 7-27

Approx. River Mile:

Time: 1145

Nearest Survey Marker: T-17-4

Crew: A. Zarnacze, A Wolfson, C Purkiss

Distance from Marker: IN line

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube ☐ Ekman	N:	1.5	4.5 clay?	C: G:	C: G:
	E:			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Fine bubbles released when cores were pulled - extreme vacuum.
Loss of 2' from bottom (sucked out) in Geo and Chem A cores.
Note: Retained Core B with Catcher (Red Brown mtl at Bottom) Core A Retry w/ catcher
Core B (geo) NG w/ catc

Measurement Number	CORE A Chemistry Length 97" DEPTH	CORE A Chemistry Length 97" SED	CORE A Geotech Length 96" DEPTH	CORE A Geotech Length 96" SED	CORE B Chemistry Length 97 DEPTH	CORE B Chemistry Length 97 SED	CORE B Geotech Length 96 DEPTH	CORE B Geotech Length 96 SED
1	74.5	79.5	79.0	84.0	~~73 Geo~~	~~40~~	75.0	79.5
2	65.5	69.75	65.25	75.25	~~NG~~	~~NG~~	63.0	71.0
3	57.	62.	53.75	65.5	~~66.5~~	~~84"~~	51.5	60.0
4	51	57	44.5	58.25	~~NG~~	~~NG~~	45	55
5	43.5	51			Catcher ↑		38	49.5
Core A 6 61.5"	CATCHER				73.5	81.5	Catcher ↓	
7	54.5	56			57.0	69.5	73	90
8	48.25	52.75			52	65	NG	NG
9	39.5	46.5			49.5	63.5	66.5	84
10	32	42			47.5	61.5	NG	NG
11	26	36.5						
12	~~22.75~~ 17.0	~~34~~ 30						
	15.5	28.5						

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: C Purkiss

void

Date:

Final length 33" (9" void) 31" (5.5 inches) 35.5" 32.5"

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T 180

Date: July 27, 2011

Approx. River Mile:

Time: 6:00 pm

Nearest Survey Marker:

Crew: A.B. A.W. CP.

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☒ Core Tube ☐ Ekman	N:	6.5	3.5 ~~today~~	C: G:	C: G:
	E:			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 57"		Geotech Length ~~[illegible]~~ 60"		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	47.75	48.75	49.5	51.25				
2	40.25	42.75	39.5	44.75				
3	33.5	37	34	40.75				
4	30.75	34.5	29.5	37.25				
5	27.5	31.5	23.5	31.75				
6	20.75	25.75	15.5	24.75				
7	17.5	23						
8	11	17						
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature]

Date: July 27 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date:

Time:

Crew:

Transect:

Approx. River Mile:

Nearest Survey Marker: T 353

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube ☐ Ekman	N:	2	3'+	C: G:	C: G:
	E:			C: G:	C: G:
Core B ☑ Core Tube ☐ Ekman	N:	3	3'+	C: G:	C: G:
	E:			C: G:	C: G:

NOTES: Geo A - Petroleum odor @ 96 → 77 : 20" (much compression) redo.

Measurement Number	CORE A				CORE B			
	Chemistry Length 97		Geotech Length 96		Chemistry Length 97		Geotech Length 96	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
A Chem w/ catcher 1	(1) 87 3/4	90 1/2	77 1/2	89 1/2	77	78	84	84 3/4
2	76 1/2	85 1/2	NG	—	71	72	74	77 1/2
3	NG	—			67 3/4	69 1/4	64	70 1/2
A Chem w/o catch 4	(2) 83	86 1/2	74 1/2	86				
5	74	79 1/2	63	77				
6	62	69 1/4	53 1/2	69				
7	54	61 1/2	44 1/2	61				
8	50	58						
9	43	52						
10	39 1/2	48						
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature:

Date:

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T-217B

Date: 7/28/11

Approx. River Mile:

Time: 1600

Nearest Survey Marker:

Crew: Zarnadze, Wolfson, Purkiss

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:
Core B ☑ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 97"		Geotech Length 96		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	79	83½	(1) 85	92				
2	72	76½	68	84				
3	62½	67½	NG	NG				
4	50½	58½						
5	41¼	50½	(2) 76	86				
6			56	72				
7			39	59				
8			33	53				
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: SB 18-A

Date: August 1, 2011

Approx. River Mile:

Time: START 1245 A 230pm B

Nearest Survey Marker: T-18-2

Crew:

Distance from Marker: in line

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube	N:	3'	6+'	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:
Core B ☑ Core Tube	N:	2½'	5+'	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:

NOTES:

A Chem length 37½ → 37 (void) 58-60 (void) length 60

A Geo length = 60"

B Chem length:

B Geo length:

Measurement Number	CORE A Chemistry Length 97 DEPTH	CORE A Chemistry Length 97 SED	CORE A Geotech Length 96 DEPTH	CORE A Geotech Length 96 SED	CORE B Chemistry Length 97 DEPTH	CORE B Chemistry Length 97 SED	CORE B Geotech Length 96 DEPTH	CORE B Geotech Length 96 SED
1	70½	75½	71	73	65	65	55½	58¾
2	55	63	59½	63	54	54	50½	54½
3	45½	54½	54	58	50½	51		
4	38½	48	44	49½	49¾	50¼		
5	32	43	31	38½				
6	28	39½	28	37½				
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature]

Date: August 1, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T115-A

Date: 8-2-11

Approx. River Mile:

Time: 11:30

Nearest Survey Marker: T115

Crew: Zarnadze, Wolfson, Purkiss

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube ☐ Ekman	N:	1	2-4' depends	C: G:	C: G:
	E:			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 62 1/4		Geotech Length 53.5		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	(1) 55	57 3/4	(1) 47 1/2	49"				
2	45	51						
3	~~33~~	~~43~~	(36 3/4	Tube)				
4	(2) 52 1/4	54 1/2	(2) 25 3/4	32				
5	44 1/2	53 1/2	26	32				
6			NG					
7	(3) 36 3/4	Tube	36 3/4	Tube				
8	31	32	(3) 26 1/2	28				
9	20	24	16	24				
10	12	18	9 1/2	19 1/2	Keep			
11 Keep	9.0	16						
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature]

Date: August 2, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T-29 B

Date: August 2, 2011

Approx. River Mile:

Time: 1530

Nearest Survey Marker: T-30

Crew: Zarnowitz, Purkiss, Wolfson

Distance from Marker: –

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:
Core B ☑ Core Tube ☐ Ekman	N:	3.5'	1.5'	C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Length Core A Chem = 8.5" of 15 = 56%
Previous core = 75%
∴ These 3 attempts worse than Previous.

Measurement Number	CORE A				CORE B			
	Chemistry Length 49"		Geotech Length 49½"		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	① ~~31"~~	~~39~~						
2	② 42"	47"						
3	③ 34	41						
4	= 52%							
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature]

Date: August 2, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T282

Date: 8-2-11

Approx. River Mile:

Time: 1700

Nearest Survey Marker: T280

Crew: Purkiss, Wolfson, Zarnadze

Distance from Marker: 200'

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube	N:	1'	1'	C: - G:	C: G: 66% 13"
☐ Ekman	E:			C: G:	C: G:
Core B ☑ Core Tube	N:	2'	1/2'	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:

NOTES:

CORE A 2 more attempts = ≤ Previous (initial core in June)

Measurement Number	CORE A Chemistry Length 50" DEPTH	CORE A Chemistry Length SED	CORE A Geotech Length 53 1/2 DEPTH	CORE A Geotech Length SED	CORE B Chemistry Length DEPTH	CORE B Chemistry Length SED	CORE B Geotech Length DEPTH	CORE B Geotech Length SED
1	(1) 34	40	(1) 44 1/4	49				
2	32 3/4	39 1/2	33 3/4	44 3/4				
3	NG		31 1/4	42				
4	(2) 43 3/4	45	NG					
5	34	40	(2)					
6	32 1/2	40	29	47				
7	NG		NG					
8	(3) 39"	41 3/4"	(3) 25 1/2	45 1/2				
9	33 1/2	37 3/4	NG					
10			(4) 34 1/2	40 1/2				
11			Keep ↑					
12			(5) 29	41 (NG)				

DEPTH - Measurement from sediment-water interface to top of core tube (inches) 49 1/2 Total

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

13" Recovery of 19"

Signature: **Date:**

166
19/13.0
160

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 8-3-11

Time:

Crew:

Transect: T231

Approx. River Mile:

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A	N:	21 inch	>5.5 ft	C: G:	C: G:
☐ Core Tube ☐ Ekman	E:			C: G:	C: G:
Core B	N:			C: G:	C: G:
☐ Core Tube ☐ Ekman	E:			C: G:	C: G:

NOTES:

Strong petroleum odor & sheen at Loc A (diesel fuel?)

Measurement Number	CORE A				CORE ~~B~~ A			
	Chemistry Length 97"		Geotech Length 96		Chemistry Length		Geotech Length 96	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	88	89.5	84.5	92.5			80.5	83.5
2	76	81	REJECT				66	71.5
3	58.5	72.5	80	91			51	63
4	REJECT		67	82.75			43	57.5
5	83	85	REJECT				35	52
6	72	76	73	91.5			29	47.75
7	58	65	REJECT					
8	43	54.25	87.5	94				
9	33.75	47.5	76	93.5				
10	25	40.5	REJECT					
11	20.25	36.75	77	96				
12			REJECT					

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: Crew Wolf

Date: Aug 3, 2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 8-2-11

Time: 1400

Crew: AZ, AW, FCP

Transect: T231 B

Approx. River Mile:

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core ~~A~~ C ☑ Core Tube	N:	1	76	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:
Core B ☑ Core Tube	N:	2.5	5	C: G:	C: G:
☐ Ekman	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE ~~A~~ B				CORE ~~A~~ C			
	Chemistry Length 97		Geotech Length 96		Chemistry Length 97		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	77	77	① ~~[illegible]~~	~~[illegible]~~	73.5	79	75	87
2	61 1/2	68	② 82 3/4	86 3/4	53	66.5	54	78
3	49	60	67 1/2	77 1/2	46	63	40	75
4	44	56	51 1/4	67 3/4	37	59		
5	43 3/4	55	44 3/4	63 1/2	29	56.5		
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 8-4-11

Time:

Crew:

Transect: SB-18B (redo)

Approx. River Mile:

Nearest Survey Marker: T-18-2

Distance from Marker: 1N line

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:
Core B ☑ Core Tube ☐ Ekman	N:	~3'	45+'	C: G:	C: G:
	E:			C: G:	C: G:

NOTES: Core B - Catcher installed

Measurement Number	CORE A				CORE B			
	Chemistry Length		Geotech Length		Chemistry Length 97"		Geotech Length 96"	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1					76 1/2	82	72	81 1/2
2					64 3/4	72	59 1/4	72 1/2
3					54 1/4	64	52 1/2	66 1/4
4					50	59 1/2	47 1/4	62 3/4
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature] **Date:** 8/4/11

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook **Transect:** T267A REDO

Date: 8-4-11 **Approx. River Mile:**

Time: **Nearest Survey Marker:**

Crew: AW, CP **Distance from Marker:**

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Distance to top (ft)
Core A ☑ Core Tube ☐ Ekman	N:	2	~2 ft	C: G:	C: G:
	E:			C: G:	C: G:
Core B ☐ Core Tube ☐ Ekman	N:			C: G:	C: G:
	E:			C: G:	C: G:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 61		Geotech Length 61.5		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	52	54.5	① 49	55				
2	44.5	50	39	51				
3	38	45	REJECT					
4	36	43	② 52	54.5				
5			43	49				
6			37.5	44.5				
7			36	42				
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: Dan Wolf **Date:** 8-4-11

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T363

Date:

Approx. River Mile:

Time:

Nearest Survey Marker:

Crew:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final core Recovery ~~Distance to top~~ (ft)
Core A ☑ Core Tube ☐ Ekman	N:	0.5ft	~1ft	C: 11.5inch G: 10 inch	C: 10inch G: 7.5inch
	E:			C: G:	C: ~~[illegible]~~ch G: ~~[illegible]~~ch
Core B ☑ Core Tube ☐ Ekman	N:	1.5	~1ft	C: 12inch G: 11.5	C: 10inch G: 9.5inch
	E:			C: G:	C: G:

NOTES:

Location A about 5 ft from bank, Hard bottom in channel
Location B about 10 ft from bank. Lots of wood debris.

Measurement Number	CORE A				CORE B			
	Chemistry Length		Geotech Length		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: **Date:**

core distances: Core A - 5 ft from the bank, Core C - 30 ft Core B - 61 ft
river depth is 65 ft.

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook
Transect: Green Brook Road
Date: 10/25/2011
Approx. River Mile: N/A
Time: 10:30 am
Nearest Survey Marker: N/A
Crew: CP, JG, AW, AZ
Distance from Marker: N/A

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	actual Sediment [redacted] (ft)	% recovery
Core A 1:00 pm ☒ Core Tube ☐ Ekman	N: 194580.42 E: 149615.28	4"	6'	Chem: 66.5 Geo: 65	Chem: 57 Geo: 48.5	86 75
Core B 10:30 am ☒ Core Tube ☐ Ekman	N: 194586.41 E: 149628.73	13"	[redacted] 4'	Chem: 44" Geo: 45"	Chem: 39" Geo: 40"	89 89
NOTES: Core C	N: 194581.96 E: 149622.80	8"	3'	chem: 35.5 Geo: 36	32.5 32.5	92% 90
11:30 am				chem: 21.5/24.5		

Core C - Chemistry 57" 50/51.5; 46/47; 37/38.5; 33/35.5; 28/30 25.5/27.5 23/25.5
center Geotech 55" 49.5/50, 42.5/43.5, 35/36.5, 29/31, 23.5/26, 19/22.5

Measurement Number	CORE B Chemistry Length 97" DEPTH	CORE B Chemistry Length 97" SED	CORE B Geotech Length 96" DEPTH	CORE B Geotech Length 96" SED	CORE A Chemistry Length 97" DEPTH	CORE A Chemistry Length 97" SED	CORE A Geotech Length 96" DEPTH	CORE A Geotech Length 96" SED
1	79	83	77	82	76.5	79.5	78	85
2	71.5	77	69.5	75.5	70	74	70	79
3	62	66.5	62.5	68.5	65.5	70	55.5	67
4	55	59	56	61	56	61.5	42	56
5	53	58	51	56	50	56	32	48
6					44	51	31	47.5
7					37	45		
8		Core	B		30.5	40		
9								
10						Core	A	
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature] **Date:** 10/25/2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: Shephard avenue

Date: 10/25/2011

Approx. River Mile: N/A

Time: 4:15 pm

Nearest Survey Marker: N/A

Crew: CP, JG, AW, AZ

Distance from Marker: N/A

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☒ Core Tube ☐ Ekman	N: 193280.63 E: 148247.17	1.5'	2.5'	Chem: 28 Geo: 23	Chem: 22 Geo: 20.5
Core B ☒ Core Tube ☐ Ekman	N: 193285.83 E: 148245.32	1'	5'	Chem: 60.5 Geo: 63.5	Chem: 55 Geo: 47

NOTES:

Core B is 2 ft from the Bank
Core A is 34 ft from the bank.
Total width is 53 ft.

Measurement Number	CORE A				CORE B			
	Chemistry Length 39" (86%)		Geotech Length 46.5" (89%)		Chemistry Length 97" (91%)		Geotech Length 96" (74%)	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	36.5	36.5	38	38.5	74.5	77	67	72.5
2	33	33	33	35	65	66	59	67.5
3	32	32	23.5	26	57.5	60.5	52	62.5
4	27.5	27.5			51	53.5	44.5	57
5	17	18			45	48.5	36	51
6					36.5	42	32.5	49
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature]

Date: 10/25/2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 10/26/11

Time: 11:35 A.m

Crew: Chris Purkiss & Jordan Goldstein

Transect: [redacted] Beachwood Cul-de-sac

Approx. River Mile: NA

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☒ Core Tube ☐ Ekman	N: 636293.72 E: 487754.30	[redacted] 1'	5.0'	Chem: [redacted] Geo:	Chem: – Geo:
Core B 1-4 attempt ☒ Core Tube ☐ Ekman	N: 636254.12 E: 487758.57	20"	6.5' (No refusal)	Chem: Geo:	Chem: Geo:

NOTES: 4th attempt core B (channel) Chemistry ⇒ next page

Measurement Number	CORE A Chemistry Length 97" DEPTH	CORE A Chemistry Length 97" SED	CORE A Geotech Length 96" DEPTH	CORE A Geotech Length 96" SED	CORE B Center Channel Chemistry Length 97" DEPTH	CORE B Chemistry Length 97" SED	CORE B Geotech Length 96" DEPTH	CORE B Geotech Length 96" SED
1	74.5"	77.5"	70"	73.5"	76"	79.5"	73"	82"
2	64"	68.5"	61.5"	67"	66"	73.5"	61"	77.5"
3	56"	61"	54"	61.5"	56"	67"	48"	68"
4	45"	52.5"	47"	58"	45"	59"	40.5"	62.5"
5	38.5"	47"	37"	50"	35"	51"	32"	60"
6	35"	44"	35"	48"	25"	45.5"	26.5"	56.5"
7					17	40"	21"	53"
8				Redo	—	—		
9					70.5	74		
10					47½	54		
11					39.5	54		
12					33½	51		

DEPTH - Measurement from sediment-water interface to top of core tube (inches) 27 46

SED - Measurement from top of core tube to surface of sediment inside core tube (inches) 19½ 39

Signature:

Date: 10/26/11

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 10/26/11

Time: 3:30 p.m.

Crew: Chris & Jordan

Transect: Beechwood

Approx. River Mile: N/A

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☐ Core Tube ☐ Ekman	N: E:			Chem: Geo:	Chem: Geo:
Core B 6th Attempt ☒ Core Tube ☐ Ekman	N: E:	20"	6.5' (No refusal)	Chem: Geo:	Chem: Geo:

NOTES: 4th attempt (channel)

5th Attempt; moved out of channel to new location (New coordinates) (Core B-2)

6th Attempt same location as 5th (Core B-2)

Measurement Number	CORE B-2 Chemistry Length DEPTH	CORE B-2 Chemistry Length SED	CORE B-2 Geotech Length DEPTH	CORE B-2 Geotech Length SED	CORE A Chemistry Length DEPTH	CORE A Chemistry Length SED	CORE A Geotech Length DEPTH	CORE A Geotech Length SED
1		4	61"	50"				
2			40"	55"				
3			34"	51"				
4			27"	46"				
5			22"	41"				
6		5th						
7			68"	76"				
8								
9		6th	~~[illegible]~~	~~[illegible]~~	R			
10			~~[illegible]~~	~~[illegible]~~				
11			56"	74"				
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: BB RM 7.7

Date: Nov 1, 2011

Approx. River Mile: 7.7

Time: 11:00 am

Nearest Survey Marker: 7.7

Crew: AZ CP JG

Distance from Marker: ON IT.

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	~~Final Core Distance to Top~~ actual sed (ft)	% rec
Core A Right upstream ☒ Core Tube ☐ Ekman	N: 630650.61 E: 519728.34	2'	3'	Chem: 46" Geo: 41.5	Chem: 41.5 Geo: 38	90% 92%
Core B ☒ Core Tube ☐ Ekman	N: 630651.73 E: 519740.82	2'	2' 9"	Chem: 48 Geo: 43	Chem: 44.5 Geo: 32.5	93% 76%

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 97" 90%		Geotech Length 85" 92%		Chemistry Length 97" (93%		Geotech Length 71" 76%	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	79	81	60	64	70.5	73.5	41	50.5
2	71	73	49	54.5	62.5	66.25	39	47.5
3	64.5	67	45	51	54.5	58.5	36	45
4	57.5	62	47	49	49	52.5	33	42
5	51	55.5	43.5	47			28	38.5
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature]

Date: 11/01/2011

[redacted]

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 11/1/11 - 11/2/11

Time:

Crew: Plunkiss, Collstein,

Transect: BB RM 8.1

Approx. River Mile: 8.1

Nearest Survey Marker: NA (RM 7.7)

Distance from Marker: ≈ 2100'

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☒ Core Tube ☐ Ekman	N: 628641.44 E: 521416.51	14"	6.5'	Chem: Geo:	Chem: Geo:
Core B ☒ Core Tube ☐ Ekman	N: 628649.91 E: 521423.46	6"	6.5'	Chem: Geo:	Chem: Geo:

NOTES: width = 23.8'

Measurement Number	CORE A				CORE B			
	Chemistry Length 97"		Geotech Length 46"		Geotech Chemistry Length 97" 11/2 60.5"		Geotech Chemistry Length 53.5	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	72	73.5	33.5	37	72	85	~~46~~	~~48.5~~
2	62.5	65	27.5	33	I-51 dry / Boulder		44	51.5
3	52	56	22	27	64	84	35	47
4	45.5	48.5	18	23.5	II - dry / boulder		29 1/2	45
5	30	36	12	18.5	11/2 Redo		22 1/2	42
6	22	28.5	9	15.5	36	55.5	14 1/2	34 1/2
7	18.5	24			Redo		6	27 1/2
8	12	17.5			38	55		
9					32 1/2	53 1/2		
10			Geotech B		25	50		
11					19	44 1/2		
12					14	40		
					7	35		

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: [signature]

Date: 11/01/2011

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 11/2/11 – 11/3/11

Time: 3:45 pm

Crew: ~~Jordan~~ Goldstein, Durkiss

Transect: T 7.41

Approx. River Mile: Rm 7.41

Nearest Survey Marker: ~~[illegible]~~ Rm. 7.41

Distance from Marker: 6.00 ft

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☒ Core Tube ☐ Ekman	N: 631205.08 E: 519364.58	22.5"		Chem: Geo:	Chem: Geo:
Core B ☒ Core Tube ☐ Ekman	N: 631212.51 E: 519368.57	20"	2" no refusal dense/tight	Chem: Geo:	Chem: Geo:

NOTES: Width = 25'

Chem Core B 2nd attempt

Measurement Number	CORE A Chemistry Length 74.5 DEPTH	CORE A Chemistry Length 74.5 SED	CORE A Geotech Length 54.25" DEPTH	CORE A Geotech Length 54.25" SED	↓ Redo ↓ (11-3) CORE B Chemistry Length ~~40~~ 44.5 DEPTH	CORE B Chemistry Length ~~40~~ 44.5 SED	CORE B Geotech Length 64.75" DEPTH	CORE B Geotech Length 64.75" SED
1	64.5	68	49	49.25	~~38~~	~~39~~	55.5	56.5
2	56.0	60.5	42	43	~~32.5~~	~~33.25~~	46	49
3	46.5	51.5	34	36	~~28.25~~	~~29.5~~	39.5	43.5
4	40.0	46	27.75	31			36	41
5								
6					36.5	37.5		
7			3rd attempt		30	31		
8					24.5	25.5		
9					20.5	22		
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 11/3/11

Time: 1345

Crew: Purkiss Goldstein

Transect: Talmadge BR

Approx. River Mile:

Nearest Survey Marker:

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☒ Core Tube ☐ Ekman	N: E:	8.5"	5'	Chem: Geo:	Chem: Geo:
Core B ☒ Core Tube ☐ Ekman	N: E:	13"	5' (60")	Chem: Geo:	Chem: Geo:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 97"		Geotech Length 50.5"		Chemistry Length 46.75"		Geotech Length 68"	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	76.5	82	39.5	41	35	36	~~48.5~~	~~64.5~~
2	65.5	74	32.5	35.5	27.75	30.5	52½	59
3	49.75	60.5	23.0	30	20	23	41½	50.75
4	38.75	50.5	15.5	24.5	15	18	35	44.5
5			8.0	19.5			26.5	36.5
6							19.75	30.5
7							15.5	27
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Transect: T-131

Date: 11-4-11

Approx. River Mile: RM 2.83

Time: 11:30 A.M.

Nearest Survey Marker: T130

Crew: Goldstein, Purkiss

Distance from Marker: 105'

Location and Sample Type	GPS Coordinates (ft)	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☐ Core Tube ☐ Ekman	N: E:			Chem: Geo:	Chem: Geo:
Core B ☒ Core Tube ☐ Ekman	N: 636220.16 E: 500010.38	15.5"	2.5'	Chem: Geo:	Chem: Geo:

NOTES: Only one core collected @ this location
width @ location = 39 ft

Measurement Number	~~CORE A~~ Chemistry Length DEPTH	~~CORE A~~ Chemistry Length SED	~~CORE A~~ Geotech Length DEPTH	~~CORE A~~ Geotech Length SED	CORE B Chemistry Length 44.5" DEPTH	CORE B Chemistry Length 44.5" SED	CORE B Geotech Length 47.5" DEPTH"	CORE B Geotech Length 47.5" SED"
1					38.5	40	38"	39.5"
2					34.5	36	33.5"	37
3					29	32	28	34
4					21.75	26	21	27.5
5					15	20	16	24.5
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 11/7/11

Time: 11:15

Crew: Purkiss, Goldman

Transect: ~~B~~ BB Rm 7.41

Approx. River Mile: RM 7.41

Nearest Survey Marker: RM 7.41

Distance from Marker:

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☒ Core Tube ☐ Ekman	N: E:	12.5'		Chem: Geo:	Chem: Geo:
Core B ☐ Core Tube ☐ Ekman	N: E:			Chem: Geo:	Chem: Geo:

NOTES: Redo of core A RM 7.41 on 11/3/11

Measurement Number	CORE A				CORE B			
	Chemistry Length 55"		Geotech Length		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	49.75	49.75						
2	39.25	40.25						
3	34	35.5						
4	26	28.5						
5	19	21.5						
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____

Project: Low Resolution/Geotechnical Cores: OU4 Bound Brook

Date: 11/4/11

Time: 1430

Crew: Goldstein, Purkiss

Transect:

Approx. River Mile: 3.03

Nearest Survey Marker: T 160

Distance from Marker: 15' DS

Location and Sample Type	GPS Coordinates	Water Depth (ft)	Depth of Probe Penetration (ft)	Final Core Penetration (ft)	Final Core Distance to Top (ft)
Core A ☑ Core Tube ☐ Ekman	N: 634735.27 E: 502022.45	16"	2'	Chem: Geo:	Chem: Geo:
Core B ☐ Core Tube ☐ Ekman	N: E:			Chem: Geo:	Chem: Geo:

NOTES:

Measurement Number	CORE A				CORE B			
	Chemistry Length 60		Geotech Length 60'		Chemistry Length		Geotech Length	
	DEPTH	SED	DEPTH	SED	DEPTH	SED	DEPTH	SED
1	48.5	53.0	42	47.5				
2	39.0	42.0	37	42½				
3	34.5	38	34½	38½				
4								
5								
6								
7								
8								
9								
10								
11								
12								

DEPTH - Measurement from sediment-water interface to top of core tube (inches)

SED - Measurement from top of core tube to surface of sediment inside core tube (inches)

Signature: _____ **Date:** _____